



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 09/24/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/769,166	01/23/2001	John Fijol -	99E052	2895	
7	590 09/24/2003				
Raytheon Company 2000 East E1 Segundo Boulevard, Bldg. EO/E01/E150 P. O. Box 902			EXAM	EXAMINER	
			NGUYEN, DUNG T		
E1 Segundo, C	A 90245		ART UNIT	PAPER NUMBER	
			2871		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summ ry Continue Continue			11/
Office Action Summ ry Office Action Summ ry Office Action Summ ry Examiner Examiner Dung Nguyen 2871 Art Unit Dung Nguyen 2871 Art Unit Peri df f Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. 1 The period for ruly spolled above is less than 100 (200 days and 100 cere, 100 cere, 100 days are ruly to be limited from the state of the ruly spolled above is less than 100 (200 days are ruly of the ruly spolled above is less than 100 (200 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 (200 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is less than 100 days are ruly of the ruly spolled above is ruly are ruly received by the Office later than 100 days are 30 TCR 17.00 days are 30 TCR 18.00 days are		Application No.	Applicant(s)
Peri of 1 rReply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. - Clearization of thirm may be available under the incommunication. - If the pends to reply appointed above is less than shirty (20) days, a reply within the statisticy minimum of thirty (30) days, will be considered timely. - Status of the pends to reply appointed above is less than shirty (20) days, a reply within the statisticy minimum of thirty (30) days, will be considered timely. - Parlant on the office intermining date of this communication. - Parlant on the office intermining date of the communication. - Parlant on the melling date of this communication. - Parlant on the office intermining the communication of the pends of the communication. - Parlant on the office intermining the communication. - Parlant on the communication office intermining the communication. - Parlant on the communication. - Parlant on the commu		09/769,166	FIJOL, JOHN
Peri of Ir Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. THE MAILING DATE OF THIS COMM	Offic Action Summ ry	Examiner	Art Unit
A SHORTHED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION - Edamisms of time may be switched under the provision of 30°CPR 1.136(a). In no event, however, may a rophy be timely fitted after 50°C, (b) MONTH'S from the mailing date of this communication. - It is particle to may be perfected to make the state of the	The BRAU III O DAGE	Dung Nguyen	2871
The stroke in the control of the co	The MAILING DATE of this communication Peri df r Reply	appears on the cover sheet with th	correspondenc address
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 05 July 2001 is/are: a) cocepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application application fas been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 1 Interview Summary (PTO-413) Paper No(s) 1 and 2 interview Summary (PTO-413) Paper No(s) 1 interview Summary (PTO-413) Paper No(s) 1 interview Summary (PTO-413) Paper No(s) 2 interval Patent Application (PTO-152) 5 i	- Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the meanmed patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a reply be in the statutory minimum of thirty (30) described will apply and will expire SIX (6) MONTHS from the statutory minimum of thirty.	timely filed ays will be considered timely. m the mailing date of this communication.
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 05 July 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. §§ 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. **Matachment(s)** 10) Notice of Partsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 10) Information Discissure Statement(e) (PTO-1449) Paper No(s) 4 and 5. **Cortified Copies of to PTO-1449) Paper No(s) 4 and 6. 10 Other Others Summary (PTO-413) Pap	1) Responsive to communication(s) filed on	21 July 2002	
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims			
Disposition of Claims 4) □ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration. 5) □ Claim(s)	20/23		
4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are allowed. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1 □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of Patersenses Patent Drawing Review (PTO-948) Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 5 Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 Office Action Supervisore.	olooca in accordance with the blackice fill	der <i>Ex parte Quayle</i> , 1935 C.D. 11,	orosecution as to the merits is 453 O.G. 213.
5) □ Claim(s) is/are allowed. 6) ☑ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on is/are: a) ☒ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of Oratsperson's Patent Drawing Review (PTO-948) Solution of Information Disciosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 Office Action Function Office Office Action 6 foreign Provisional Application for Informal Patent Application (PTO-152) Other:	4)⊠ Claim(s) <u>1-4</u> is/are pending in the applicati	on.	
5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. **Matchment(s)** Notice of References Cited (PTO-892)	4a) Of the above claim(s) 3 and 4 is/are with	hdrawn from consideration.	
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>05 July 2001</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some *c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Itachment(s) Notice of References Cited (PTO-892)			
8	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.		
8	7) Claim(s) is/are objected to.		
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 05 July 2001 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 10 ☐ Notice of References Cited (PTO-892) 21 ☐ Notice of Orafisperson's Patent Drawing Review (PTO-948) 32 ☐ Notice of Drafisperson's Patent Drawing Review (PTO-948) 33 ☐ Other: Patent and Trademnatic Office OCHine Action Surveys Office Action Surveys OCHine Action Surveys OCHine Action Surveys OCHine Action Surveys	8) Claim(s) are subject to restriction and	d/or election requirement.	
10) The drawing(s) filed on 05 July 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Interview Summary (PTO-413) Paper No(s)	Application Papers	•	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some *c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892)			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some *c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	10)⊠ The drawing(s) filed on <u>05 July 2001</u> is/are: a	a)⊠ accepted or b)⊡ objected to by t	he Examiner.
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)) Notice of References Cited (PTO-892) Notice of Bratisperson's Patent Drawing Review (PTO-948) Notice of Informati Patent Application (PTO-152) Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) Statement Statement Patent Application (PTO-152) Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) Statement Statemen	Applicant may not request that any objection to	the drawing(s) be held in abeyance. S	See 37 CFR 1.85(a)
12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. National Stage of Process Cited (PTO-892) Notice of References Cited (PTO-892) Notice of Braftsperson's Patent Drawing Review (PTO-948) Notice of Informati Patent Application (PTO-152) Notice of Informati Patent Application (PTO-152) Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 Office Action Supposed.	11) The proposed drawing correction filed on	is: a)□ approved b)□ disappro	oved by the Examiner.
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1 Interview Summary (PTO-413) Paper No(s). 1 Interview Summary (PTO-413) Paper No(s). 1 Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6. 1 Patent and Trademark Office OL-326 (Rev. 04-01)			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10) Notice of References Cited (PTO-892) 21) Notice of Draftsperson's Patent Drawing Review (PTO-948) 22) Notice of Information Disciosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 33		Examiner.	
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Patent and Trademark Office OL-326 (Rev. 04-01)			
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Patent and Trademark Office OL-326 (Rev. 04-01)	13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. § 119(a	n)-(d) or (f).
2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10) Notice of References Cited (PTO-892) 21) Notice of Draftsperson's Patent Drawing Review (PTO-948) 22) Notice of Draftsperson's Patent Drawing Review (PTO-948) 23) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 24) Office Action Suppose	a) ☐ All b) ☐ Some * c) ☐ None of:		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10) Notice of References Cited (PTO-892) 21) Notice of Draftsperson's Patent Drawing Review (PTO-948) 22) Notice of Draftsperson's Patent Drawing Review (PTO-948) 23) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 24) Office Action Suppose	 Certified copies of the priority docume 	ents have been received.	
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10) Notice of References Cited (PTO-892) 21) Notice of Draftsperson's Patent Drawing Review (PTO-948) 22) Notice of Draftsperson's Patent Drawing Review (PTO-948) 23) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 24) Office Action Suppose	2. Certified copies of the priority docume	ents have been received in Applicati	on No.
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10 Notice of References Cited (PTO-892) 21 Notice of Draftsperson's Patent Drawing Review (PTO-948) 22 Notice of Draftsperson's Patent Drawing Review (PTO-948) 23 Notice of Informal Patent Application (PTO-152) 34 Notice of Informal Patent Application (PTO-152) 35 Notice of References Cited (PTO-1449) Paper No(s) 4 and 6 36 Other:	3. Copies of the certified copies of the pr application from the International F	iority documents have been receive	ed in this National Stage
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 3) Other:	14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. & 119/e	e) (to a provisional application)
Attachment(s) Office Action Summary (PTO-413) Paper No(s)	a) ∐ The translation of the foreign language p	Provisional application has been reco	aivad
Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6 Other: Patent and Trademark Office Other PTO-1449 Paper No(s) Other PTO-152 PTO-1449 PTO-152 PTO-	attachment(s)	pilent of 0.0.0. 99 120	anu/UF 121.
[OL-326 (Rev. 04-01)) U Notice of Draftsperson's Patent Drawing Review (PTO-948)) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	E\ Notice of the court	(PTO-413) Paper No(s) atent Application (PTO-152)
Autoc Socioli Artifilial A	OL 200 (D 0.4.04)	Action Summary	Part of Paner No. 0

Application/Control Number: 09/769,166

Art Unit: 2871

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of invention I in Paper No. 8 (dated 07/21/2003) is acknowledged. The traversal is on the ground(s) that the process of figure 2 cannot make a product of invention I. This is not found persuasive because Applicant provides no evidence to support such contention. It should also be noted that a substrate structure comprising a plurality of parallel columns of direction alignment as shown in figure 3 as claimed can be made by a method of forming in figure 2. Therefore, the requirement is still deemed proper and is therefore made FINAL.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1-2 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's admitted prior art (APA), figures 1 and 3-4.

The above claims are anticipated by APA, figures 1 and 3-4 which discloses a liquid crystal display (LCD) cell (10) comprising:

Application/Control Number: 09/769,166

Art Unit: 2871

. a first substrate (14b);

. a plural of parallel columns of director alignment material (17) disposed on the surface

of the first surface, each one of the columns having an oblique angle longitudinal axis with

respect the surface of the first surface (see figure 3), and each of the columns terminating in a

distal end having a substantially flat surface (22 and/or 20a in figure 4);

. a second substrate (14a);

. a liquid crystal material (layer interposed between two substrates), wherein portions of

such liquid crystal material inherently in contact with the parallel columns of director alignment

material.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 703-305-0423. The

examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert H. Kim can be reached on 703-305-3492. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

DN

0918/2003

Dung Nguyen Patent Examiner Page 3

Art Unit 2871